

IN THE CLAIMS:

1. (Currently Amended) A hybrid lighting system comprising:
means for concentrating sunlight;
a light distributor tube comprising two ends, a longitudinal axis and means for redirecting light entering an end of said tube out of said tube away from said longitudinal axis; and
means for directing concentrated sunlight into said light distributor tube; and
means for aiming said sunlight concentrating means toward the sun, wherein said aiming means comprises at least two reflectors disposed on two relatively rotatable supports, wherein a first rotatable support is rotatable about a first axis and a second rotatable support is rotatable about a second axis which is perpendicular to said first axis.
2. (Original) A hybrid lighting system according to claim 1 comprising:
a source of artificial light;
means for directing artificial light into said light distributor tube.
3. (Original) A hybrid lighting system according to claim 2 wherein said artificial light directing means comprises a parabolic reflector.
4. (Original) A hybrid lighting system according to claim 2 wherein said artificial light directing means comprises a substantially elliptical reflector.

5. (Original) A hybrid lighting system according to claim 2 wherein said artificial light directing means comprises a parabolic reflector and a substantially elliptical reflector positioned to share a common focal point.

6. (Original) A hybrid lighting system according to claim 1 wherein said sunlight concentrating means comprises a first parabolic reflector having a focal point and a second parabolic reflector having a focal point which is smaller than the focal point of said first parabolic reflector, and wherein said reflectors have a common focal point.

7. (Original) A hybrid lighting system according to claim 6 wherein said sunlight concentrating means comprises a third parabolic reflector facing the same direction as said first parabolic reflector.

8. (Original) A hybrid lighting system according to claim 7 wherein said third parabolic reflector is connected to the back of said second parabolic reflector.

9. (Original) A hybrid lighting system according to claim 6 wherein concentrated, substantially collimated sunlight passes through a central opening in said first parabolic reflector.

10. (Original) A hybrid lighting system according to claim 2 comprising means for blending beams of sunlight with artificial light.

11. (Original) A hybrid lighting system according to claim 10 wherein said blending means comprises a beam splitter.

12. (Original) A hybrid lighting system according to claim 11 wherein said beam splitter comprises at least one dichroic coating.

13. (Original) A hybrid lighting system according to claim 11 wherein said beam splitter comprises a surface with a first portion covered by a reflective coating and a second portion not covered by the same reflective coating.

14. (Original) A hybrid lighting system according to claim 1 wherein said sunlight concentrating means recollimates said sunlight.

15. (Cancelled)

16. (Cancelled)

17. (Withdrawn)

18. (Withdrawn)

19. (Withdrawn)

20. (Withdrawn)

21. (Withdrawn)

22. (Withdrawn)

23. (Withdrawn)

24. (Currently Amended) A device for blending sunlight and artificial light comprising:

an inlet for sunlight entering from a first direction;

an inlet for artificial light entering from a second direction;

a visible light beam splitter disposed at the intersection of said sunlight and said artificial light, wherein said beam splitter reflects substantially all of the visible light from a reflected portion of at least one of said sunlight or artificial light and transmits substantially all of the visible light from a non-reflected portion.

25. (Currently Amended) A device for blending sunlight and artificial light according to claim 24 wherein said visible light beam splitter reflects substantially all of the visible light from a portion of both of said sunlight and said artificial light.

26. (Currently Amended) A device for blending sunlight and artificial light according to claim 25 wherein said visible light beam splitter transmits substantially all of the visible light from a non-reflected portion of both of said sunlight and said artificial light.

27. (Currently Amended) A device for blending sunlight and artificial light according to claim 24 wherein said visible light beam splitter transmits substantially all of the visible light from a non-reflected portion of both of said sunlight and said artificial light.

28. (Original) A device for blending sunlight and artificial light according to claim 24 wherein said first direction is perpendicular to said second direction.

29. (Currently Amended) A device for blending sunlight and artificial light according to claim 28 wherein said visible light beam splitter is positioned at a 45° angle to said first direction and said second direction.

30. (Currently Amended) A device for blending sunlight and artificial light according to claim 24 wherein said visible light beam splitter is positioned at a 45° angle to said first direction and said second direction.

31. (Currently Amended) A device for blending sunlight and artificial light according to claim 24 comprising a source of sunlight collimated artificial light.

32. (Original) A device for blending sunlight and artificial light according to claim 31 comprising a sunlight concentrator and collimator.

33. (Original) A device for blending sunlight and artificial light according to claim 24 comprising a sunlight concentrator and collimator.

34. (Withdrawn)

35. (Withdrawn)

36. (Withdrawn)

37. (Withdrawn)

38. (Withdrawn)

39. (Withdrawn)

40. (Withdrawn)

41. (Withdrawn)

42. (Currently Amended) A hybrid lighting system comprising:

means for collecting sunlight;

at least one source of artificial light;

at least one visible light beam splitter for splitting visible light into at least two visible light beams wherein substantially all of the visible light incident on a first portion of said visible light beam splitter is directed to a first visible light beam and substantially of the visible light incident on a second portion of said visible light beam splitter is directed to a second visible light beam; and

at least one light distributor tube comprising two ends and means for directing light entering an end of said tube out a side of said tube wherein said sunlight and said artificial light are directed into said at least one distributor tube.

43. (Currently Amended) A hybrid lighting system according to claim 1 comprising a plurality of visible light beam splitters which reflect and transmit different percentage percentages of visible sunlight.

44. (Currently Amended) A hybrid lighting system according to claim 43 comprising a plurality of visible light beam splitters which reflect and transmit different percentage percentages of visible artificial light.